



SEQUENCE LISTING

<110> ~~PatentIn~~, Stephen J.
Liu, Qinghua

<120> Improved Rapid Subcloning Using Site-Specific
Recombination

<130> BCM-03434

<140> 09/122,384

<141> 1998-07-24

<150> 08/864,224

<151> 1997-02-28

<160> 32

<170> PatentIn Ver. 2.0

<210> 1

<211> 2220

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic

<400> 1

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cttagtacgt tagccatgag agcttagtac gttagccatg agggtttagt tcgttaaaca 300
tgagagctta gtacgttaaa catgagagct tagtacgtga aacatgagag cttagtacgt 360
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tcgtatagca tacattatac gaagttatct ggaattcccc gggctcgaga acatatggcc 480
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ctgtgccttc tagttgccag ccattctgtg tttgcccctc ccccgctgct tccttgacct 600
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<210> 2
<211> 16
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic

<400> 2
ggatccccgg gaattc 16

<210> 3
<211> 36
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic

<400> 3
ggatcgata tgcccatggc tcgaggatcc gaattc 36

<210> 4
<211> 42
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic

<400> 4
catggctata acttcgtata gcatacatta tacgaagtta tg 42

<210> 5
<211> 42
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic

<400> 5
gatccataac ttctgtataat gtatgctata cgaagttata gc 42

<210> 6
<211> 46
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic

<400> 6
ggccggacgt cataacttcg tatagcatatc attatacgaa gttatg 46

<210> 7
<211> 46
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic

<400> 7
gatccataac ttctgtataat gtatgctata cgaagttatg acgtcc 46

<210> 8
<211> 46
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic

<400> 8
tcgagacgtc ataacttcgt atagcataca ttatacgaag ttatgc 46

<210> 9
<211> 46
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic

<400> 9
ggccgcataa cttcgtataa tgtatgctat acgaagttat gacgtc 46

<210> 10
<211> 1740
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic

<400> 10
atgtccccta tactaggtta ttggaaaatt aagggccttg tgcaaccac tcgacttctt 60
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tggcgaaaca aaaagtttga attgggtttg gaggttccca atcttcctta ttatattgat 180
ggtgatgta aattaacaca gtctatggcc atcatacgtt atatacgtga caagcacaac 240
atgttgggtg gttgtccaaa agagcgtgca gagatttcaa tgcttgaagg agcggttttg 300
gatattagat acggtgtttc gagaattgca tatagtaaag actttgaaac tctcaaagtt 360
gattttctta gcaagctacc tgaaatgctg aaaatgttcg aagatcgttt atgtcataaa 420
acataatttaa atggtgatca tgtaacccat cctgaattca tgttgatga cgctcttgat 480
gttgttttat acatggaccc aatgtgctg gatgcgttc caaaattagt ttgttttaaa 540
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tggcctttgc agggctggca agccacgttt ggtgggtggc accatcctcc aaaatcggat 660
ctggttcgc gtggatctcg tcgtgcattc gttggatcgc atatgcccat ggccaattta 720
ctgaccgtac accaaaattt gctgtcatta ccggtcgatg caacgagtga tgaggttcgc 780
aagaacctga tggacatgtt cagggatcgc caggcgtttt ctgagcatac ctggaaaatg 840
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 gcctgggtctg gacacagtgc ccgtgtcggg gccgcgcgag atatggcccg cgtggagtt 1620
 tcaataccgg agatcatgca agctgggtggc tggaccaatg taaatattgt catgaactat 1680
 atccgtaacc tggatagtga aacagggggc atggtgcgcc tgctggaaga tggcgattag 1740

<210> 11

<211> 579

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic

<400> 11

Met Ser Pro Ile Leu Gly Tyr Trp Lys Ile Lys Gly Leu Val Gln Pro
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Thr Arg Leu Leu Leu Glu Tyr Leu Glu Glu Lys Tyr Glu Glu His Leu
 20 25 30

Tyr Glu Arg Asp Glu Gly Asp Lys Trp Arg Asn Lys Lys Phe Glu Leu
 35 40 45

Gly Leu Glu Phe Pro Asn Leu Pro Tyr Tyr Ile Asp Gly Asp Val Lys
 50 55 60

Leu Thr Gln Ser Met Ala Ile Ile Arg Tyr Ile Ala Asp Lys His Asn
 65 70 75 80

Met Leu Gly Gly Cys Pro Lys Glu Arg Ala Glu Ile Ser Met Leu Glu
 85 90 95

Gly Ala Val Leu Asp Ile Arg Tyr Gly Val Ser Arg Ile Ala Tyr Ser
 100 105 110

Lys Asp Phe Glu Thr Leu Lys Val Asp Phe Leu Ser Lys Leu Pro Glu
 115 120 125

Met Leu Lys Met Phe Glu Asp Arg Leu Cys His Lys Thr Tyr Leu Asn
 130 135 140

Gly Asp His Val Thr His Pro Asp Phe Met Leu Tyr Asp Ala Leu Asp
 145 150 155 160

Val Val Leu Tyr Met Asp Pro Met Cys Leu Asp Ala Phe Pro Lys Leu
 165 170 175

Val Cys Phe Lys Lys Arg Ile Glu Ala Ile Pro Gln Ile Asp Lys Tyr
 180 185 190

Leu Lys Ser Ser Lys Tyr Ile Ala Trp Pro Leu Gln Gly Trp Gln Ala
 195 200 205

Thr Phe Gly Gly Gly Asp His Pro Pro Lys Ser Asp Leu Val Pro Arg
 210 215 220

Gly Ser Arg Arg Ala Ser Val Gly Ser His Met Pro Met Ala Asn Leu
 225 230 235 240
 Leu Thr Val His Gln Asn Leu Pro Ala Leu Pro Val Asp Ala Thr Ser
 245 250 255
 Asp Glu Val Arg Lys Asn Leu Met Asp Met Phe Arg Asp Arg Gln Ala
 260 265 270
 Phe Ser Glu His Thr Trp Lys Met Leu Leu Ser Val Cys Arg Ser Trp
 275 280 285
 Ala Ala Trp Cys Lys Leu Asn Asn Arg Lys Trp Phe Pro Ala Glu Pro
 290 295 300
 Glu Asp Val Arg Asp Tyr Leu Leu Tyr Leu Gln Ala Arg Gly Leu Ala
 305 310 315 320
 Val Lys Thr Ile Gln Gln His Leu Gly Gln Leu Asn Met Leu His Arg
 325 330 335
 Arg Ser Gly Leu Pro Arg Pro Ser Asp Ser Asn Ala Val Ser Leu Val
 340 345 350
 Met Arg Arg Ile Arg Lys Glu Asn Val Asp Ala Gly Glu Arg Ala Lys
 355 360 365
 Gln Ala Leu Ala Phe Glu Arg Thr Asp Phe Asp Gln Val Arg Ser Leu
 370 375 380
 Met Glu Asn Ser Asp Arg Cys Gln Asp Ile Arg Asn Leu Ala Phe Leu
 385 390 395 400
 Gly Ile Ala Tyr Asn Thr Leu Leu Arg Ile Ala Glu Ile Ala Arg Ile
 405 410 415
 Arg Val Lys Asp Ile Ser Arg Thr Asp Gly Gly Arg Met Leu Ile His
 420 425 430
 Ile Gly Arg Thr Lys Thr Leu Val Ser Thr Ala Gly Val Glu Lys Ala
 435 440 445
 Leu Ser Leu Gly Val Thr Lys Leu Val Glu Arg Trp Ile Ser Val Ser
 450 455 460
 Gly Val Ala Asp Asp Pro Asn Asn Tyr Leu Phe Cys Arg Val Arg Lys
 465 470 475 480
 Asn Gly Val Ala Ala Pro Ser Ala Thr Ser Gln Leu Ser Thr Arg Ala
 485 490 495
 Leu Glu Gly Ile Phe Glu Ala Thr His Arg Leu Ile Tyr Gly Ala Lys
 500 505 510
 Asp Asp Ser Gly Gln Arg Tyr Leu Ala Trp Ser Gly His Ser Ala Arg
 515 520 525
 Val Gly Ala Ala Arg Asp Met Ala Arg Ala Gly Val Ser Ile Pro Glu
 530 535 540
 Ile Met Gln Ala Gly Gly Trp Thr Asn Val Asn Ile Val Met Asn Tyr
 545 550 555 560

Ile Arg Asn Leu Asp Ser Glu Thr Gly Ala Met Val Arg Leu Leu Glu
565 570 575

Asp Gly Asp

<210> 12
<211> 34
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic

<400> 12
ataacttcgt atagcataca ttatacgaag ttat 34

<210> 13
<211> 34
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic

<400> 13
attacctcgt atagcataca ttatacgaag ttat 34

<210> 14
<211> 34
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic

<400> 14
ataacttcgt atagcataca ttatatgaag ttat 34

<210> 15
<211> 34
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic

<400> 15
attacctcgt atagcataca ttatatgaag ttat 34

<210> 16
<211> 34
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic

<400> 16
ataacttcgt atagtataca ttatacgaag ttat 34

<210> 17
<211> 34
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic

<400> 17
acaacttcgt ataatgtatg ctatacgaag ttat 34

<210> 18
<211> 34
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic

<400> 18
gaagttccta ttctctagaa agtataggaa cttc 34

<210> 19
<211> 28
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic

<400> 19
gcggcgctg agtggttaaatt gtccaatt 28

<210> 20
<211> 25
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic

<400> 20
cccgggctaa tcgccatctt ccagc 25

<210> 21
<211> 26
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic

<400> 21
ccatggccaa ttactgacc gtacac 26

<210> 22
<211> 42
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic

<400> 22
catggctata acttcgtata gcatacatta tacgaagtta tg 42

<210> 23
<211> 39
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic

<400> 23
gatccataac ttctgtataat gtatgctata cgaagttat 39

<210> 24
<211> 46
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic

<400> 24
tcgagacgtc ataacttcgt atagcataca ttatacgaag ttatgc 46

<210> 25
<211> 45
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic

<400> 25
gccgcataac ttctgtataat gtatgctata cgatgttatg acgtc 45

<210> 26
<211> 42
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic

<400> 26
catggctata acttcgtata gcatacatta tacgaagtta tg 42

<210> 27
<211> 42
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic

<400> 27
gatccataac ttctgtataat gtatgctata cgaagttata gc 42

<210> 28
<211> 31
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic

<400> 28
aaatttctcg aggctctgag caaaagctca t 31

<210> 29
<211> 39
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic

<400> 29
tatatatagc ggccgcttaa ttaagatcct cctcggata 39

<210> 30
<211> 70
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic

<400> 30
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agctcatttc 70

<210> 31
<211> 22
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic

<400> 31
ggatatagtt cctcctttca gc 22

<210> 32
<211> 34
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic

<400> 32
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